

# INTERNATIONAL SEARCH REPORT

International application No.

## A. CLASSIFICATION OF SUBJECT MATTER

IPC7: G06T-5/00 G06T-7/00 A61B-8/00

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

G06T-5/00, G06T-7/00, A61B-8/00 in combination with keywords

Documentation searched other than minimum documentation to the extent that such documents are included in the fields

Electronic database(s) consulted during the international search (name of database(s) and, where practicable, search terms used)

Canadian Patents database, USPTO WEST, Questel-Orbit (Pluspat), IEEE Xplore, Google Scholar (search terms: image, fast marching

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No(s).
X	Handbook of Medical Imaging, Vol.2: Medical Image Processing and Analysis, Milan Sonka and J. Michael Fitzpatrick Editors, SPIE Press vol. PM80 June 2000 (1,108 pages). Chapter 3: "Image Segmentation Using Deformable Models", Chenyang Xu, Dzung L. Pham, Jerry L. Prince, pages 129-174. also available at: <a href="http://www.control.auc.dk/~mpko00/literature/modelling/xu00image.pdf">http://www.control.auc.dk/~mpko00/literature/modelling/xu00image.pdf</a>	1-39
X, P	"Intravascular Ultrasound Image Segmentation: A Fast-Marching Method", Marie-Hélène Cloutier et al., Lecture Notes in Computer Science, Publisher: Springer-Verlag GmbH, ISSN: 0302-9743, Volume 2879/2003, Editors Randy E. Ellis, Terry M. Peters, pp. 432 - 439 (Medical Image Computing and Computer-Assisted Intervention -MICCAI 2003, 6th International Conference, Montréal, Canada, November 15-18, 2003)	1-39

☒ Further documents are listed in the continuation of Box ☒ See patent family annex.

<p>* Special categories of cited documents :</p> <p>"A" document defining the general state of the art which is not considered to be of particular relevance</p> <p>"E" earlier application or patent but published on or after the international filing date</p> <p>"L" document which may throw doubt on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)</p> <p>"O" document referring to an oral disclosure, use, exhibition or other means</p> <p>"P" document published prior to the international filing date but later than the priority date claimed</p>	<p>"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention</p> <p>"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone</p> <p>"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art</p> <p>"&amp;" document member of the same patent family</p>
---	---

Date of the actual completion of the international search

10 March 1005 (10-03-2005)

Date of mailing of the international search report

21 mars 2005 (21-03-2005)

Name and mailing address of the ISA/CA

Canadian Intellectual Property Office  
Place du Portage I, C114 - 1st Floor, Box PCT  
50 Victoria Street  
Gatineau, Quebec K1A 0C9

Authorized officer

Serge Carrier (819) 997-2322

# INTERNATIONAL SEARCH REPORT

International application No.  
PCT/CA2004/001970

## C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No(s).
A	"A Fast Minimal Path Active Contour Model", Chao Han et al., IEEE Transactions on Image Processing, Vol. 10, No. 6, June 2001, pp. 865-873.	1,22,30,32,33
A	"Computational Geometry for Patient-Specific Reconstruction and Meshing of Blood Vessels from MR and CT Angiography", Luca Antiga et al., IEEE Transactions on Medical Imaging, Vol. 22, No. 5, May 2003, pp. 674-684.	1,22,30,32,33
A	WO 03/041584, Suri Jasjit S. et al., A61B-6/00, May 22, 2003 abstract and page 37, lines 16-17.	1,22,30,32,33

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

PCT/CA2004/001970

Patent Document Cited in Search Report	Publication Date	Patent Family Member(s)	Publication Date
WO03041584	22-05-2003	US6842638 B1	11-01-2005
		WO03041584 A2	22-05-2003

---